

**COMPOSITIONS AND METHODS FOR INHIBITING  
ENDOTHELIAL CELL PROLIFERATION AND REGULATING  
ANGIOGENESIS USING SERINE PROTEASES**

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**ABSTRACT**

Compositions and methods for regulating angiogenic activity wherein the compositions comprise serine proteases including kallikreins such as prostate-specific antigen (PSA), serine protease homologs, or active fragments thereof. Serine proteases and kallikreins exhibit potent antiangiogenic activity on human and other animal cells, particularly endothelial cells. More particularly, PSA, PSA homologs, and inhibitory fragments thereof may be combined with a pharmaceutically acceptable excipient or carrier and used to inhibit angiogenesis and angiogenesis-related diseases such as cancer, arthritis, macular degeneration, and diabetic retinopathy.

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